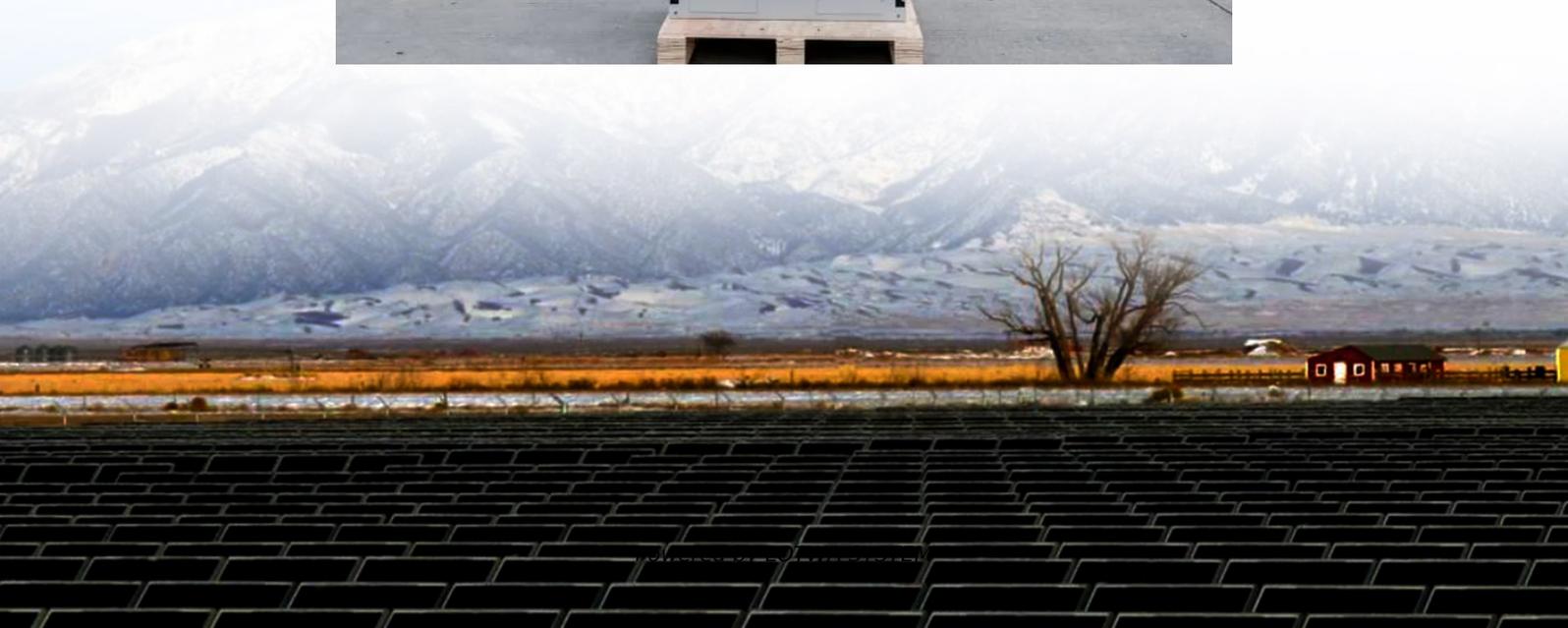


Outdoor energy storage lighting design solution





Overview

How can solar energy-driven lighting improve the safety of buildings & cities?

The use of such a reliable solar energy-driven lighting system, with maximum time when the light is “on”, will eliminate the sudden-death of light problem present in conventional photovoltaic (PV) outdoor lights and, therefore, will enhance the natural surveillance and feeling of safety in sustainable buildings and cities.

What software is used to control the outdoor light system?

Controller Software The discharge control of the outdoor light system algorithm was constructed and implemented based on battery load voltage. The programming language used to execute this algorithm was MikroBasic ® pro (version 1, mikroElektronika, Belgrade, Serbia).

How is the discharge control of the outdoor light system algorithm implemented?

The discharge control of the outdoor light system algorithm was constructed and implemented based on battery load voltage. The programming language used to execute this algorithm was MikroBasic ® pro (version 1, mikroElektronika, Belgrade, Serbia). Figure 10 shows the flowchart that describes the sequence of the algorithm.

Can solar-powered LED roadway lighting be used for a 10 km highway?

Wu et al. [4] have presented and investigated the design of solar-powered LED roadway lighting using high power LED luminaries (100 W), and estimated the total cost of installations for a 10 km highway with two lanes.



Outdoor energy storage lighting design solution

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